

OPERATING GUIDE

SRC™ 1600/2400
Sound Reinforcement Console



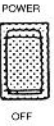


SRC™ 1600

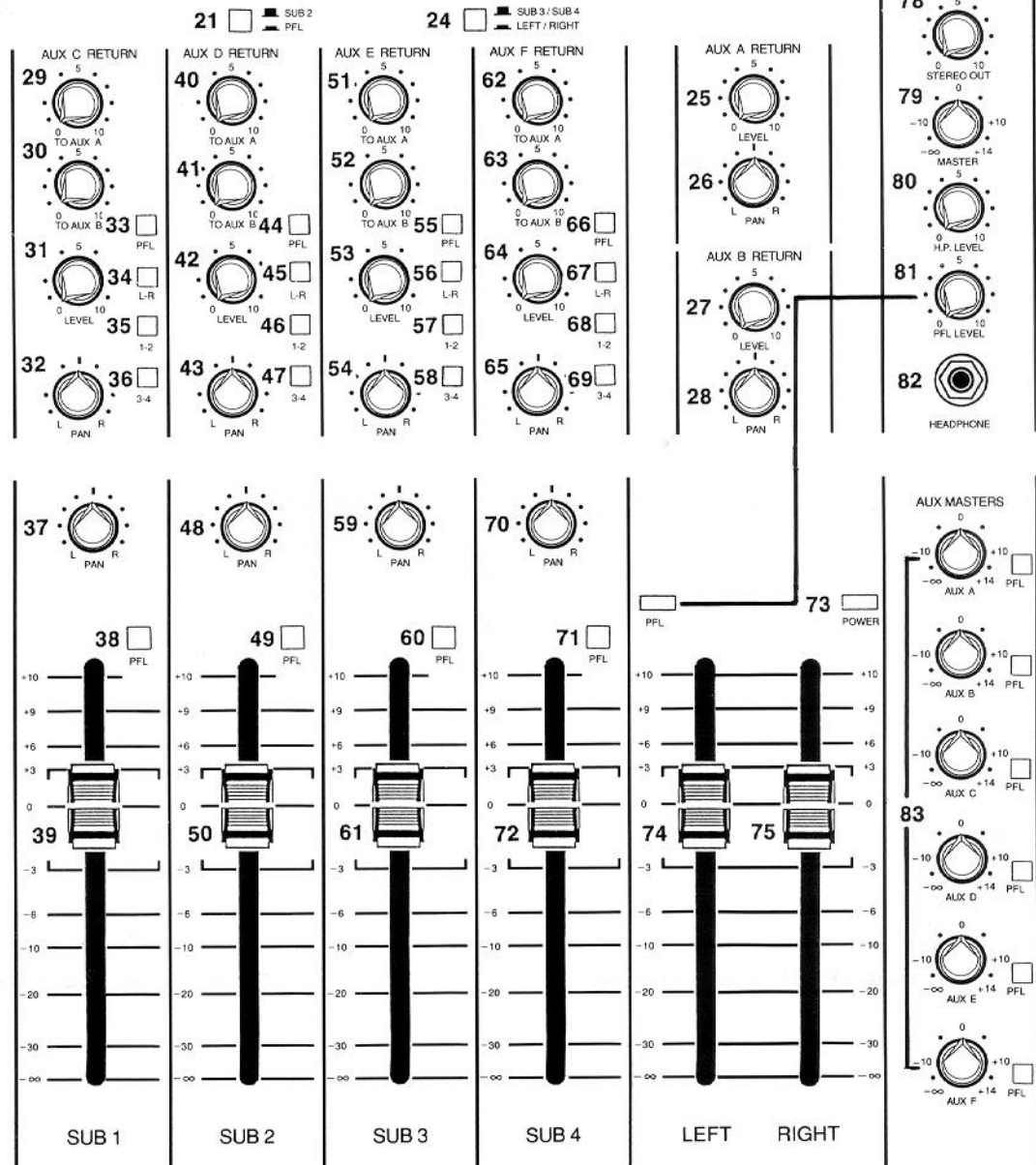
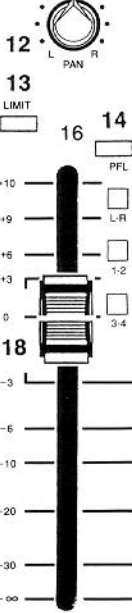
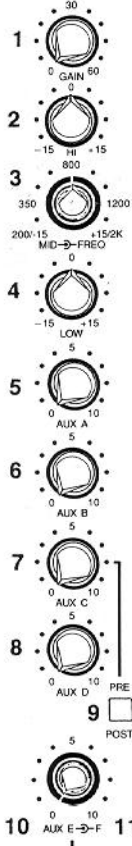
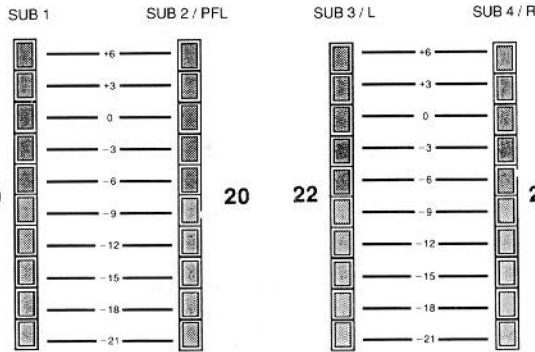
16 Channel Mixing Console

Made in U.S.A.

76



16



CHANNEL SECTION

GAIN (1)

Varies the gain of the channel input stage to allow a wide input dynamic range. Proper adjustment of the input gain is aided by observance of the LIMIT LED.

HIGH (2)

An active tone control (shelving type, ± 15 dB) that varies the high frequency boost or cut.

MID/FREQUENCY (3)

The (inner) "MID" is an active control capable of 15 dB of boost or cut at the center frequency selected by the (outer) "FREQUENCY" control. Frequency range is variable from 200 Hz to 5 kHz.

LOW (4)

An active tone control (shelving type, ± 15 dB) that varies the low frequency boost or cut.

AUX A (5)

Regulates the amount of signal routed to the AUX A Master control. This control is Pre (before) EQ and Pre Fader.

AUX B (6)

Regulates the amount of signal routed to the AUX B Master control. This control is Pre (before) EQ and Pre Fader.

AUX C (7)

The AUX C control regulates the amount of signal routed to the AUX C Master control.

AUX D (8)

The AUX D control regulates the amount of signal routed to the AUX D Master control.

PRE/POST SWITCH (9)

The PRE/POST switch will choose whether the AUX C signal is taken PRE-EQ/FADER (Out position) or POST-EQ/FADER (In position).

NOTE: PRE/POST switch is functional on both AUX C and AUX D sends.

NOTE: PRE send controls are normally used for creating a monitor mix.

POST send controls are normally used for outboard effects.

AUX E/F (10) (11)

Two AUX sends are provided in a dual-concentric control. The inner knob is AUX E (10); the outer is AUX F (11). Both sends are Post (after) EQ and Post Fader. The AUX E Send routes signal to the AUX E Master control. The AUX F Send routes signal to the AUX F Master control.

PAN (12)

For stereo operation, PAN is used to mix the channel output to left, right, or in between in the "stereo image." For mono or submastering operation, the PAN control is used with the assignment switches to pan the channel output between Submasters 1 or 2 when the 1-2 button is pressed, Submasters 3 or 4 when the 3-4 button is pressed, and direct to L or R when the L-R button is pressed.

LIMIT LED (13)

Indicates when the signal level in the channel is too high. It illuminates when the channel signal reaches approximately +15 dBV.

PFL (14)

Allows cueing of any channel or combination of channels instantly through headphones connected to the headphone jack (master section). All channel functions (except fader) may be monitored via the channel PFL system.

L-R (15)

When depressed, this button allows the channel to send its output through the PAN control, which will now "crossfade" between Output Masters Left and Right. With this function engaged, Pan control L position directs output to the Left Output Master, center position will output to both Masters equally, and in the R position the output will be sent to the Right Output Master.

1-2 (16)

When depressed, this button allows the channel to send its output through the PAN control, which will now "crossfade" between Submasters 1 and 2. With this function engaged, Pan control L position directs output to Submaster 1, center position will output to both submasters equally, and in the R position the output will be sent to Submaster 2.

3-4 (17)

When depressed, this button allows the channel to send its output through the PAN control, which will now "crossfade" between Submasters 3 and 4. With this function engaged, Pan control L position directs output to Submaster 3, center position will output to both Submasters equally, and in the R position the output will be sent to the Submaster 4.

CHANNEL LEVEL FADER (18)

Determines the level of the channel. Calibration is in dB and level is variable from infinity (off) to +10 dB. This should be operated near the "0 dB" (unity gain) indicator whenever possible to assure an optimum balance between channel noise and headroom.

SUB 1 ARRAY (19)

A calibrated LED array is provided to visually indicate the output level of SUB 1.

SUB 2/PFL ARRAY (20)

A calibrated, switch-selectable LED array is provided to visually indicate the output level of Sub 2 or PFL.

SUB 2/PFL SELECT (21)

Switch Out position selects Sub 2; Switch In position selects PFL.

SUB 3/L ARRAY (22)

A calibrated, switch-selectable LED array is provided to visually indicate the output level of Sub 3 or Left.

SUB 4/R ARRAY (23)

A calibrated, switch-selectable LED array is provided to visually indicate the output level of Sub 4 or Right.

SUB 3/LEFT SELECT AND SUB 4/RIGHT SELECT (24)

Switch Out position selects Sub 3; Switch In position selects Left. Switch Out position selects Sub 4; Switch In position selects Right.

AUX A RETURN SECTION

LEVEL (25)

Controls the level of the AUX "A" Return. When an outboard effects device is patched into the AUX "A" patch loop, this control determines the level of the effect that is routed thru the AUX "A" Pan control.

PAN (26)

Assigns AUX "A" return to Left, Right, or both. Must be used in conjunction with AUX "A" Return Level.

AUX B RETURN SECTION

LEVEL (27)

Controls the level of the AUX "B" Return. When an outboard effects device is patched into the AUX "B" patch loop, this control deter-

mines the level of the effect that is routed thru the AUX "B" Pan control.

PAN (28)

Assigns AUX "B" return to Left, Right, or both. Must be used in conjunction with AUX "B" Return Level.

AUX C RETURN SECTION

TO AUX A (29)

Allows the AUX "C" return to be assigned to the AUX "A" mix.

TO AUX B (30)

Allows the AUX "C" return to be assigned to the AUX "B" mix.

LEVEL (31)

Controls the level of the AUX "C" Return. When an outboard effects device is patched into the AUX "C" patch loop, this control determines the level of the effect that is routed thru the AUX "C" Pan control.

PAN (32)

Assigns AUX "C" Return to L & R, or Subs 1, 2, 3, and 4. Must be used in conjunction with assignment switches 30 thru 32.

PFL (33)

The "in" position of this switch assigns the AUX "C" Return to PFL.

L-R (34)

The "in" position of this switch routes the AUX "C" Return thru AUX "C" Pan control directly to left, right, or both. The "out" position removes AUX "C" from L and R.

1-2 (35)

The "in" position of this switch routes the AUX "C" Return thru AUX "C" Pan control to Sub 1, Sub 2, or both. The "out" position removes AUX "C" from Subs 1 and 2.

3-4 (36)

The "in" position of this switch routes the AUX "C" Return thru AUX "C" Pan control to Sub 3, Sub 4, or both. The "out" position removes AUX "C" from Subs 3 and 4.

Note: Assignment switching works in conjunction with AUX "C" Pan control 32.

SUB 1 SECTION

PAN (37)

For stereo operation, PAN is used to "crossfade" the Submaster to the center, left or right in the L-R "stereo image." For mono operation, PAN assigns the Submaster output to the Left or Right Masters.

PFL (38)

The "in" position of this switch assigns Sub 1 to PFL.

SUB 1 (39)

This fader sets the level of Submaster 1.

AUX D RETURN SECTION

TO AUX A (40)

Allows the AUX "D" return to be assigned to the AUX "A" mix.

TO AUX B (41)

Allows the AUX "D" return to be assigned to the AUX "B" mix.

LEVEL (42)

Controls the level of the AUX "D" Return. When an outboard effects device is patched into the AUX "D" patch loop, this control determines the level of the effect that is routed thru the AUX "D" Pan control.

PAN (43)

Assigns AUX "D" Return to L & R, or Subs 1, 2, 3, and 4. Must be used in conjunction with assignment switches 41 thru 43.

PFL (44)

The "in" position of this switch assigns the AUX "D" Return to PFL.

L-R (45)

The "in" position of this switch routes the AUX "D" Return thru AUX "D" Pan control directly to left, right, or both. The "out" position removes AUX "D" from L and R.

1-2 (46)

The "in" position of this switch routes the AUX "D" Return thru AUX "D" Pan control to Sub 1, Sub 2, or both. The "out" position removes AUX "D" from Subs 1 and 2.

3-4 (47)

The "in" position of this switch routes the AUX "D" Return thru AUX "D" Pan control to Sub 3, Sub 4, or both. The "out" position removes AUX "D" from Subs 3 and 4.

Note: Assignment switching works in conjunction with AUX "D" Pan control 43.

SUB 2 SECTION

PAN (48)

For stereo operation, PAN is used to "crossfade" the Submaster to the center, left or right in the L-R "stereo image." For mono operation, PAN assigns the Submaster output to the Left or Right Masters.

PFL (49)

The "in" position of this switch assigns Sub 2 to PFL.

SUB 2 (50)

This fader sets the level of Submaster 2.

AUX E RETURN SECTION

TO AUX A (51)

Allows the AUX "E" return to be assigned to the AUX "A" mix.

TO AUX B (52)

Allows the AUX "E" return to be assigned to the AUX "B" mix.

LEVEL (53)

Controls the level of the AUX "E" Return. When an outboard effects device is patched into the AUX "E" patch loop, this control determines the level of the effect that is routed thru the AUX "E" Pan control.

PAN (54)

Assigns AUX "E" Return to L & R, or Subs 1, 2, 3, and 4. Must be used in conjunction with assignment switches 56 thru 58.

PFL (55)

The "in" position of this switch assigns the AUX "E" Return to PFL.

L-R (56)

The "in" position of this switch routes the AUX "E" Return thru AUX "E" Pan control directly to left, right, or both. The "out" position removes AUX "E" from L and R.

1-2 (57)

The "in" position of this switch routes the AUX "E" Return thru AUX "E" Pan control to Sub 1, Sub 2, or both. The "out" position removes AUX "E" from Subs 1 and 2.

3-4 (58)

The "in" position of this switch routes the AUX "E" Return thru AUX "E" Pan control to Sub 3, Sub 4, or both. The "out" position removes AUX "E" from Subs 3 and 4.

Note: Assignment switching works in conjunction with AUX "E" Pan control 54.

SUB 3 SECTION

PAN (59)

For stereo operation, PAN is used to "crossfade" the Submaster to the center, left, or right in the L-R "stereo image." For mono operation, PAN assigns the Submaster output to the Left or Right Masters.

PFL (60)

The "in" position of this switch assigns Sub 3 to PFL.

SUB 3 (61)

This fader sets the level of Submaster 3.

AUX F RETURN SECTION

TO AUX A (62)

Allows the AUX "F" return to be assigned to the AUX "A" mix.

TO AUX B (63)

Allows the AUX "F" return to be assigned to the AUX "B" mix.

LEVEL (64)

Controls the level of the AUX "F" Return. When an outboard effects device is patched into the AUX "F" patch loop, this control determines the level of the effect that is routed thru the AUX "F" Pan control.

PAN (65)

Assigns AUX "F" Return to L & R, or Subs 1, 2, 3, and 4. Must be used in conjunction with assignment switches 67 thru 69.

PFL (66)

The "in" position of this switch assigns the AUX "F" Return to PFL.

L-R (67)

The "in" position of this switch routes the AUX "F" Return thru AUX "F" Pan control directly to left, right, or both. The "out" position removes AUX "F" from L and R.

1-2 (68)

The "in" position of this switch routes the AUX "F" Return thru AUX "F" Pan control to Sub 1, Sub 2, or both. The "out" position removes AUX "F" from Subs 1 and 2.

3-4 (69)

The "in" position of this switch routes the AUX "F" Return thru AUX "F" Pan control to Sub 3, Sub 4, or both. The "out" position removes AUX "F" from Subs 3 and 4.

Note: Assignment switching works in conjunction with AUX "F" Pan control 65.

SUB 4 SECTION

PAN (70)

For stereo operation, PAN is used to "crossfade" the Submaster to the center, left, or right in the L-R "stereo image." For mono operation, PAN assigns the Submaster output to the Left or Right Masters.

PFL (71)

The "in" position of this switch assigns Sub 4 to PFL.

SUB 4 (72)

This fader sets the level of Submaster 4.

POWER LED (73)

Illuminates when AC power is being supplied to the unit.

LEFT (74)

Master Fader for all channels and Submasters assigned to the LEFT. Determines the overall Left Main mix level.

RIGHT (75)

Master Fader for all channels and Submasters assigned to the RIGHT. Determines the overall Right Main mix level.

POWER SWITCH (76)

Depress the switch to the "On" position. The red power LED (71) will illuminate indicating power is being supplied to the unit.

LAMP (77)

A 2-pin XLR jack is provided for connecting an optional gooseneck mixer lamp (Model ML-2) for illumination in adverse lighting conditions.

STEREO OUT (78)

Adjusts the Left and Right signal level to the STEREO OUT jack. Signals are taken before (Pre) the LEFT and RIGHT Main Faders.

MASTER (79)

Controls the overall mix level when the mixer is operated in the mono configuration (4x2x1). MASTER is the combination of the Main LEFT and RIGHT signals and the MASTER AUX In.

HEADPHONE LEVEL (80)

Adjusts the level of L/R signals at the HEADPHONE jack, unless the PFL signal is present.

PFL LEVEL (81)

Controls the level for any "pre fade listen" (PFL) source, selected on the mixer and sends this signal to the headphones. One or more PFL switches must be engaged before this control is active. PFL LED indicates when the PFL is active. **NOTE:** When the PFL is active, it overrides Stereo L/R in the headphones.

HEADPHONE JACK (82)

This stereo jack allows signal to flow to both sides of any stereo headset. Tip = Left, Ring = Right.

AUX MASTERS/PFL (83)

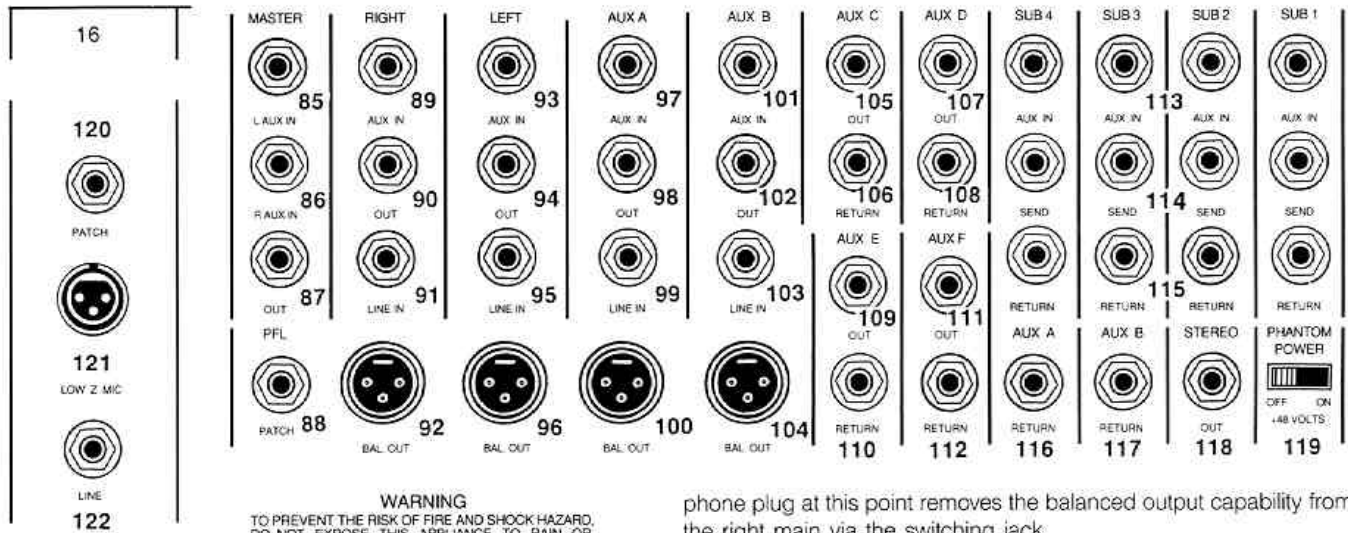
Six AUX Masters are provided (one for each of the 6 AUX sends). Each AUX Master control regulates the overall mix level appearing at the AUX output jack. Each AUX Master is equipped with a PFL switch. The "in" position of this switch assigns the AUX to PFL.

OPERATIONAL NOTE: (84)

The AUX mix capability of this console provides control over Monitor and Effects mixing. Monitor mixes are normally configured PRE at the channel faders (see Pre/Post switch AUX C and D). The AUX Masters become Monitor Master controls in this configuration, controlling the signal level at the AUX output jack. Effects mixes are normally configured POST at the channel faders. The AUX Masters become Effect Master controls in this configuration, controlling the signal level at the AUX output jack.

AUX A and B sends are internally set PRE and should be the obvious choices for Monitor mixing. AUX E and F sends are internally set POST and should be the obvious choices for Effects. AUX C and D sends are switch-selectable (PRE or POST) and may be configured for either Effects or Monitors.

MASTER PATCH



WARNING
 TO PREVENT THE RISK OF FIRE AND SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
 AVIS: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR.



MASTER SECTION

MASTER L AUX IN (85)

An input to Master for patching in signals from external devices such as effects processors.

MASTER R AUX IN (86)

An input to Master for patching in signals from external devices such as effects processors.

MASTER OUTPUT (87)

This output is a "mono" combination of the left and right program material. The signal level at this output is determined by the master level control. May be used to drive external devices such as power amps, graphic equalizers, effects processors, etc.

PFL PATCH (88)

A stereo jack for patching two PFL buses together from mixer to mixer. Tip = PFL Audio Signal, Ring = PFL Switching Control Signal, and grounding the sleeve activates the PFL System.

RIGHT SECTION

RIGHT AUX IN (89)

An input to the RIGHT MASTER for patching in signals from external devices such as effect processors, or adding channels from a second mixer.

RIGHT OUTPUT (90)

An output from the RIGHT MASTER for patching signals out of external devices such as effects processors, graphic equalizers, power amplifiers, etc.

RIGHT LINE IN (91)

A line level input to the Right Line Amplifier for patching in signals before the balanced output. This input jack is switching and may be used for "In Line" loop capability in conjunction with the right line output. An external signal patched in at this point may utilize the right line driver stage and the XLR balanced output. **NOTE:** The insertion of a 1/4"

phone plug at this point removes the balanced output capability from the right main via the switching jack.

RIGHT BALANCED OUT (92)

A balanced line output containing the RIGHT OUTPUT signal. The signal level at this output is controlled by the right master slider, unless the "Right Line Input" switching jack has been activated. This balanced output may be used to balance other signals which may be patched in at the RIGHT LINE INPUT. (See Right Line In, 91.)

LEFT SECTION

LEFT AUX IN (93)

An input to the LEFT MASTER for patching in signals from external devices such as effects processors, or adding channels from a second mixer.

LEFT OUTPUT (94)

An output from the LEFT MASTER for patching signals out to external devices such as effects processors, graphic equalizers, power amplifiers, etc.

LEFT LINE IN (95)

A line level input to the Left Line Amplifier for patching in signals before the balanced output. This input jack is switching and may be used for "In Line" loop capability in conjunction with the left line output. An external signal patched in at this point may utilize the left line driver stage and the XLR balanced output. **NOTE:** The insertion of a 1/4" phone plug at this point removes the balanced output capability from the left main via the switching jack.

LEFT BALANCED OUT (96)

A balanced line output containing the LEFT OUTPUT signal. The signal level at this output is controlled by the left master slider, unless the "Left Line Input" switching jack has been activated. This balanced output may be used to balance other signals which may be patched in at the LEFT LINE INPUT. (See Left Line In, 95.)

AUX A SECTION

AUX A AUX IN (97)

An input for patching external signals into the AUX A mixing bus. When connecting more than one mixer for additional channels, the AUX or Monitor output from the second mixer should normally patch in at this point.

AUX A OUT (98)

An output from the combination of AUX A channel SEND controls and the AUX A Master control for patching signals out to external devices

such as power amplifiers, graphic equalizers, etc. The AUX A Output is PRE the channel EQ and Fader and is normally used for a separate monitor mix.

AUX A LINE IN (99)

A line level input to the AUX A Line Amplifier for patching in signals before the balanced output. This input jack is switching and may be used for "In Line" loop capability in conjunction with the AUX A line output. Any external signal patched in at this point may utilize the AUX A line driver stage and the XLR balanced output. **NOTE:** The insertion of a ¼" phone plug at this point removes the balanced output capability from the AUX A bus via the switching jack.

AUX A BALANCED OUT (100)

A balanced line output containing the AUX A output signal. The signal level at this output is controlled by the AUX A Master Level, unless the "AUX A Line Input" switching jack has been activated. This balanced output may be used to balance other signals which may be patched in at the AUX A Line Input. (See AUX A Line In, 99.)

AUX B SECTION

AUX B AUX IN (101)

An input for patching external signals into the AUX B mixing bus. When connecting more than one mixer for additional channels, the AUX or Monitor output from the second mixer should normally patch in at this point.

AUX B OUT (102)

An output from the combination of AUX B channel SEND controls and the AUX B Master control for patching signals out to external devices such as power amplifiers, graphic equalizers, etc. The AUX B Output is POST the channel EQ and Fader and is normally used to drive external effects processors controlled by AUX B Effects loop. When external effects devices are not employed, the AUX B Output may be used as a separate recording mix or to drive additional power amp/speaker combinations.

AUX B LINE IN (103)

A line level input to the AUX A Line Amplifier for patching in signals before the balanced output. This input jack is switching and may be used for "In Line" loop capability in conjunction with the AUX B line output. Any external signal patched in at this point may utilize the AUX A line driver stage and the XLR balanced output. **NOTE:** The insertion of a ¼" phone plug at this point removes the balanced output capability from the AUX B bus via the switching jack.

AUX B BALANCED OUT (104)

A balanced line output containing the AUX B output signal. The signal level at this output is controlled by the AUX B Master Level, unless the "AUX B Line Input" switching jack has been activated. This balanced output may be used to balance other signals which may be patched in at the AUX B Line Input. (See AUX B Line In, 103.)

AUX C SECTION

AUX C OUT (105)

An output from the combination of AUX C channel SEND controls and the AUX C Master control for patching signals out to external devices such as power amplifiers, graphic equalizers, etc. The AUX C Output is switchable PRE or POST from the channel and may be used as a separate monitor mix or to drive external effects processors. When additional monitor mixes are not needed and no external effects devices are employed, the AUX C Output may be used as a separate recording mix or to drive additional power amp/speaker combinations.

AUX C RETURN (106)

A signal patched into the AUX C Return input is routed directly to the AUX C Level control, completing the "C" effects loop. (See AUX C

OUT, 101.) The AUX C Return jack is normally used for the output from external effects devices controlled by the AUX C bus.

AUX D SECTION

AUX D OUT (107)

An output from the combination of AUX D channel SEND controls and the AUX D Master control for patching signals out to external devices such as power amplifiers, graphic equalizers, etc. The AUX D Output is switchable PRE or POST from the channel and may be used as a separate monitor mix or to drive external effects processors. When additional monitor mixes are not needed and no external effects devices are employed, the AUX D Output may be used as a separate recording mix or to drive additional power amp/speaker combinations.

AUX D RETURN (108)

A signal patched into the AUX D Return input is routed directly to the AUX D Level control, completing the "D" effects loop. (See AUX D OUT, 103.) The AUX D Return jack is normally used for the output from external effects devices controlled by the AUX D bus.

AUX E SECTION

AUX E OUT (109)

An output from the combination of AUX E channel SEND controls and the AUX E Master control for patching signals out to external devices such as power amplifiers, graphic equalizers, etc. The AUX E Output is POST the channel EQ and Fader and is normally used to drive external effects processors. When no external effects devices are employed, the AUX E Output may be used as a separate recording mix, or to drive additional power amp/speaker combinations.

AUX E RETURN (110)

A signal patched into the AUX E Return input is routed directly to the AUX E Level control, completing the "E" effects loop. (See AUX E OUT, 105.) The AUX E Return jack is normally used for the output from external effects devices controlled by the AUX E bus.

AUX F SECTION

AUX F OUT (111)

An output from the combination of AUX F channel SEND controls and the AUX F Master control for patching signals out to external devices such as power amplifiers, graphic equalizers, etc. The AUX F Output is POST the channel EQ and Fader and is normally used to drive external effects processors. When no external effects devices are employed, the AUX F Output may be used as a separate recording mix or to drive additional power amp/speaker combinations.

AUX F RETURN (112)

A signal patched into the AUX F Return input is routed directly to the AUX F Level control, completing the "F" effects loop. (See AUX F OUT, 107.) The AUX F Return jack is normally used for the output from external effects devices controlled by the AUX F bus.

SUBMASTER SECTION

SUBMASTER AUX INPUTS (113)

These inputs may be used to patch an external signal into any of the four submix buses. AUX inputs are normally used for connecting a second mixer for additional channels.

SUBMASTER SENDS (114)

These sends provide outputs from all four Submasters to drive external devices such as effects processors, tape recorder inputs, graphic equalizers, etc. The signal level at the "Sub Sends" is determined by the Submaster slider, 1 thru 4. Submaster sends are normally used as the output for an independent effects loop on a particular sub group, or to supply an unbalanced output to tape deck inputs. (See SUB RETURNS, 115.)

SUBMASTER 4, 3, 2, and 1 RETURNS (115)

The sub returns are switching inputs and route signals patched in at this point directly to the Submaster PAN controls. The sub returns are normally used to complete the effects patch loop for signal processing of individual Submasters. (See SUB SENDS, 114.) **NOTE:** The sub return patch point is "after" the submaster slider and "before" the Submaster pan control.

AUX A RETURN SECTION

AUX A RETURN (116)

A signal patched into the AUX A Return input is routed directly to the AUX A Return level and pan controls to the left and right masters. This is a stereo connection with Tip=Left and Ring=Right.

AUX B RETURN SECTION

AUX B RETURN (117)

A signal patched into the AUX B Return input is routed directly to the AUX B Return level and pan controls to the left and right masters. This is a stereo connection with Tip=Left and Ring=Right.

STEREO SECTION

STEREO OUT (118)

A stereo (L and R) output is provided for driving external devices such as stereo tape recorders, stereo equalizers, stereo power amplifiers, etc. The signal level at the stereo out jack is determined by the stereo out level control. **NOTE:** Stereo 1/4" plugs used to access the STEREO OUT signal should be wired Tip = left and Ring = right.

PHANTOM POWER ON/OFF

PHANTOM POWER ON/OFF (119)

This switch selects 48V DC phantom power for all channels. In the "off" position, no phantom powering is available on any channels.

CHANNEL PATCH SECTION

Note: These facilities are duplicated on every channel.

PATCH PRE (120)

A pre-EQ and level send/return patch. This uses a stereo jack. Tip is send, and ring is return.

LOW Z IN (121)

For use with low impedance microphones or low level sources equipped with an XLR connector.

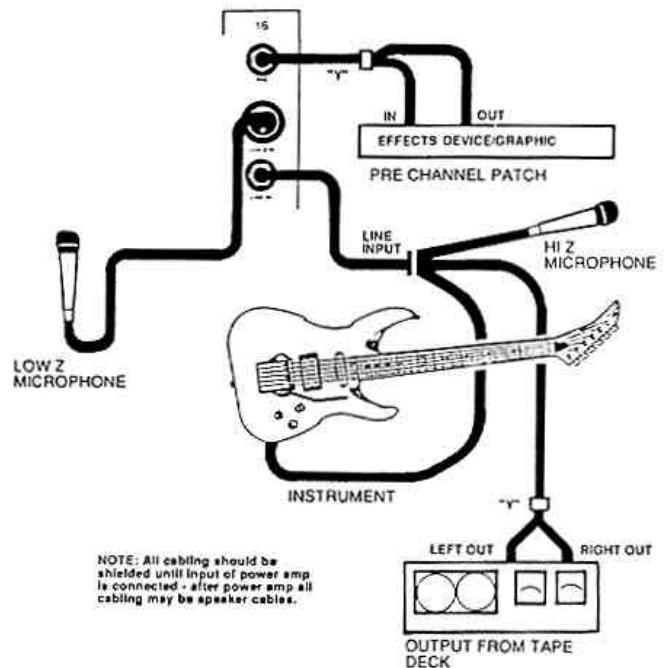
LINE IN (122)

Input for use with line level sources equipped with an 1/4" connector.

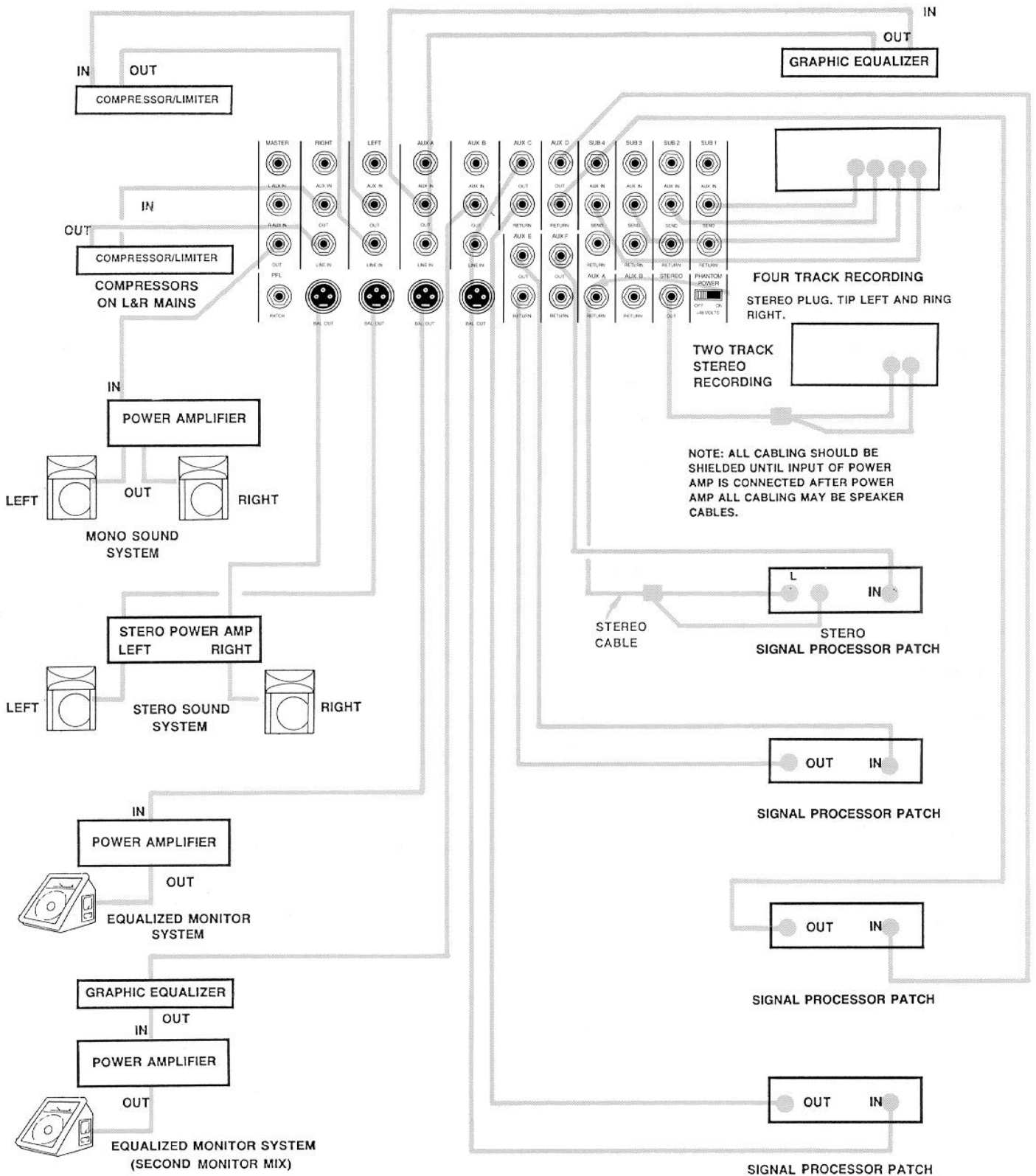
LINE CORD (123)

For your safety, we have incorporated a 3-wire line (mains) cable with proper grounding facilities. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the equipment without proper grounding facilities, suitable grounding adaptors should be used. Less noise and greatly reduced shock hazard exists when the unit is operated with the proper grounded receptacles.

CHANNEL PATCH DIAGRAM



Note: Low and High impedance inputs can not be used at the same time.



IN OUT
COMPRESSOR/LIMITER

IN OUT
COMPRESSOR/LIMITER

COMPRESSORS ON L&R MAINS

IN
POWER AMPLIFIER

LEFT RIGHT
MONO SOUND SYSTEM

STEREO POWER AMP
LEFT RIGHT

LEFT RIGHT
STEREO SOUND SYSTEM

IN OUT
POWER AMPLIFIER

EQUALIZED MONITOR SYSTEM

IN OUT
GRAPHIC EQUALIZER

IN OUT
POWER AMPLIFIER

EQUALIZED MONITOR SYSTEM
(SECOND MONITOR MIX)

IN OUT
GRAPHIC EQUALIZER

FOUR TRACK RECORDING
STEREO PLUG, TIP LEFT AND RING RIGHT.

TWO TRACK STEREO RECORDING

NOTE: ALL CABLING SHOULD BE SHIELDED UNTIL INPUT OF POWER AMP IS CONNECTED AFTER POWER AMP ALL CABLING MAY BE SPEAKER CABLES.

STEREO CABLE
L IN
STEREO SIGNAL PROCESSOR PATCH

OUT IN
SIGNAL PROCESSOR PATCH

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SIGNAL PROCESSOR PATCH

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OUT IN
SIGNAL PROCESSOR PATCH

SPECIFICATIONS:

All specifications are typical unless otherwise noted, and are referenced to nominal output level (0 dBV) unless otherwise noted. All measurements are wideband 20 Hz to 20 kHz unless otherwise stated.
0 dBV = 1 Volt
0 dBu = .778 Volt

CHANNEL

Equivalent Input Noise:

-133 dBV (150 ohm, 25 Degrees C., 60 dB Gain)

Frequency Response:

±2 dB 20-20,000 Hz all EQ Flat

Distortion:

Less than .05% @ 0 dB Output
60 dB Gain Typical .003% @ 0 dB Output
30 dB Gain (Mic input to L or R Outputs, EQ flat, Sliders at 0)

Common Mode Rejection Ratio (CMRR)

Greater than 100 dB typical

Input Impedance:

Mic = 2K Ohms
Line = 10K Ohms
Patch Return = 20K Ohms

Output Impedance:

Patch Send = 100 Ohms

High EQ:

±15 dB @ 10 kHz Minimum
Center Detent flat ± dB

Mid EQ:

±15 dB @ Selected Frequency

Mid Frequency:

200 Hz to 5 kHz adjustment of Mid Frequency

Low EQ:

±15 dB @ 50 Hz Minimum
Center Detent flat ±2 dB

Maximum Preamp Gain:

60 dB Minimum

Minimum Preamp Gain:

2 dB

Maximum Channel Gain:

70 dB
(Pan at L or R, Slider @ Max, EQ flat)

Maximum Input Level:

Mic = +16 dBV (6.3V RMS)
Line = +36 dBV (60V RMS)
Patch Return = +18 dBV (8V RMS)

Maximum Output Level:

Patch Send = +18 dBV (8V RMS)

Nominal Input Level:

Mic = -20 dBV (100mV, -18 dBu)
Line = 0 dBV (1V RMS)
Patch Return = 0 dBV (1.0V RMS)

Headroom:

Nominal = 18 dBV
Red LED = 3 dBV

Pan Characteristics:

2 dB Down @ Mid Positions

LED Level:

Red = +15 dBV (5.62V RMS)

MASTER

LED Meter Calibration:

0 = 0 dBV (1.0V RMS)

Nominal Output Level Unbalanced:

Master = +0 dBV (1.0V RMS)
L & R = +0 dBV (1.0V RMS)
AUX A-F = +0 dBV (1.0V RMS)

Nominal Output Level Balanced

L & R = +6 dBV (2.0V RMS)
AUX A & B = +6 dBV (2.0V RMS)

Nominal Headroom:

Master = 19 dB
L & R = 19 dB (Balanced and Unbalanced)
AUX A-F = 19 dB (Balanced and Unbalanced)

Maximum Output Level Unbalanced:

Master = +19.5 dBV (9.5V RMS, +21.5 dBu)
L & R = +19.5 dBV (9.5V RMS, +21.5 dBu)
AUX A-F = +19.5 dBV (9.5V RMS, +21.5 dBu)

Maximum Output Level

L & R = +25.5 dBV (18.8V RMS, +27.5 dBu)
AUX A-F = +25.5 dBV (18.8V RMS, +27.5 dBu)

Output Impedance:

Master = 100 ohms
L & R = 100 ohms (Balanced and Unbalanced)
AUX A-F = 100 ohms (Balanced and Unbalanced)

OUTPUT NOISE:

SRC™ 1600

Residual: -97 dBV
(L & R Sliders down)
Bus: -90 dBV (All Channel sliders down, Effect Return down, all Pan at middle)
Nominal: -83.5 dBV (All Channels at 30 dB Gain, 150 ohm Input, EQ Flat, Pan Middle, sliders at 0, all assigns at L & R, Effects Returns down)

SRC™ 2400

Residual: -97 dBV
(L & R Sliders down)
Bus: -88 dBV
(All Channel sliders down, Effects Returns down, all Pan at middle)
Nominal: -80 dBV
(All Channels at 30 dB Gain, 150 Ohm Input, EQ Flat, Pan Middle, Sliders at 0, All assigns at L & R, Effects Returns down)

AUX A-F Return Input Impedance:

100K Ohms

Effect A & B Return Gain:

16.5 dB Max

Auxiliary Input Gain:

0 dB
(Master, L, R, AUX A & B, Sub 1-4)

PFL Auxiliary:

Tip = PFL Signal @ 1V RMS
Nominal
Ring = PFL Switch Signal (Grounding Activates PFL)

Headphone:

Stereo 8 ohm to 200 ohm Nominal
Tip = Left, Ring = Right, Sleeve = Ground
500mW Total Power
Less than 1% distortion

Power Consumption:

120V AC 60 Hz, 30 Watts

Weight & Dimensions

SRC™1600

43 lbs.
36¼" W x 5" H x 25⅝" D

SRC™ 2400

57 lbs.
52¼" W x 5" H x 25⅝" D

Features and specifications subject to change without notice.

THIS LIMITED WARRANTY VALID ONLY WHEN PURCHASED AND REGISTERED IN THE UNITED STATES OR CANADA. ALL EXPORTED PRODUCTS ARE SUBJECT TO WARRANTY AND SERVICES TO BE SPECIFIED AND PROVIDED BY THE AUTHORIZED DISTRIBUTOR FOR EACH COUNTRY.
Ces clauses de garantie ne sont valables qu'aux Etats-Unis et au Canada. Dans tous les autres pays, les clauses de garantie et de maintenance sont fixées par le distributeur national et assurées par lui selon la législation en vigueur. •• Diese Garantie ist nur in den USA und Kanada gültig. Alle Export-Produkte sind der Garantie und dem Service des Importeurs des jeweiligen Landes unterworfen. •• Esta garantía es válida solamente cuando el producto es comprado en E.U. continentales o en Canada. Todos los productos que sean comprados en el extranjero, están sujetos a las garantías y servicio que cada distribuidor autorizado determine y ofrezca en los diferentes países.

PEAVEY ONE-YEAR LIMITED WARRANTY/REMEDY

PEAVEY ELECTRONICS CORPORATION ("PEAVEY") warrants this product, EXCEPT for covers, footswitches, patchcords, tubes and meters, to be free from defects in material and workmanship for a period of one (1) year from date of purchase, PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is subject to the conditions, exclusions, and limitations hereinafter set forth:

PEAVEY 90-DAY LIMITED WARRANTY ON TUBES AND METERS

If this product contains tubes or meters, Peavey warrants the tubes or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase; PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is also subject to the conditions, exclusions, and limitations hereinafter set forth.

CONDITIONS, EXCLUSIONS, AND LIMITATIONS OF LIMITED WARRANTIES

These limited warranties shall be void and of no effect, if:

- a. The first purchase of the product is for the purpose of resale; or
- b. The original retail purchase is not made from an AUTHORIZED PEAVEY DEALER; or
- c. The product has been damaged by accident or unreasonable use, neglect, improper service or maintenance, or other causes not arising out of defects in material or workmanship; or
- d. The serial number affixed to the product is altered, defaced, or removed.

In the event of a defect in material and/or workmanship covered by this limited warranty, Peavey will:

- a. In the case of tubes or meters, replace the defective component without charge.
- b. In other covered cases (i.e., cases involving anything other than covers, footswitches, patchcords, tubes or meters), repair the defect in material or workmanship or replace the product, at Peavey's option; and provided, however, that, in any case, all costs of shipping, if necessary, are paid by you, the purchaser.

THE WARRANTY REGISTRATION CARD SHOULD BE ACCURATELY COMPLETED AND MAILED TO AND RECEIVED BY PEAVEY WITHIN FOURTEEN (14) DAYS FROM THE DATE OF YOUR PURCHASE.

In order to obtain service under these warranties, you must:

- a. Bring the defective item to any PEAVEY AUTHORIZED DEALER or AUTHORIZED PEAVEY SERVICE CENTER and present therewith the ORIGINAL PROOF OF PURCHASE supplied to you by the AUTHORIZED PEAVEY DEALER in connection with your purchase from him of this product.

If the DEALER or SERVICE CENTER is unable to provide the necessary warranty service you will be directed to the nearest other PEAVEY AUTHORIZED DEALER or AUTHORIZED PEAVEY SERVICE CENTER which can provide such service.

OR

- b. Ship the defective item, prepaid, to:

PEAVEY ELECTRONICS CORPORATION
International Service Center
326 Hwy. 11 & 80 East
Meridian, MS 39301

including therewith a complete, detailed description of the problem, together with a legible copy of the original PROOF OF PURCHASE and a complete return address. Upon Peavey's receipt of these items: If the defect is remedial under these limited warranties and the other terms and conditions expressed herein have been complied with, Peavey will provide the necessary warranty service to repair or replace the product and will return it, FREIGHT COLLECT, to you, the purchaser.

Peavey's liability to the purchaser for damages from any cause whatsoever and regardless of the form of action, including negligence, is limited to the actual damages up to the greater of \$500.00 or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. Such purchase price will be that in effect for the specific product when the cause of action arose. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. Peavey does not assume liability for personal injury or property damage arising out of or caused by a non-Peavey alteration or attachment, nor does Peavey assume any responsibility for damage to interconnected non-Peavey equipment that may result from the normal functioning and maintenance of the Peavey equipment.

UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, ANY INCIDENTAL DAMAGES, OR ANY CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THESE LIMITED WARRANTIES ARE IN LIEU OF ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE; PROVIDED, HOWEVER, THAT IF THE OTHER TERMS AND CONDITIONS NECESSARY TO THE EXISTENCE OF THE EXPRESSED, LIMITED WARRANTIES, AS HEREINABOVE STATED, HAVE BEEN COMPLIED WITH, IMPLIED WARRANTIES ARE NOT DISCLAIMED DURING THE APPLICABLE ONE-YEAR OR NINETY-DAY PERIOD FROM DATE OF PURCHASE OF THIS PRODUCT.

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THESE LIMITED WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

THESE LIMITED WARRANTIES ARE THE ONLY EXPRESSED WARRANTIES ON THIS PRODUCT, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY, OR AGREEMENT BY ANY PERSON SHALL BE VALID OR BINDING UPON PEAVEY.

In the event of any modification or disclaimer of expressed or implied warranties, or any limitation of remedies, contained herein conflicts with applicable law, then such modification, disclaimer or limitation, as the case may be, shall be deemed to be modified to the extent necessary to comply with such law.

Your remedies for breach of these warranties are limited to those remedies provided herein and Peavey Electronics Corporation gives this limited warranty only with respect to equipment purchased in the United States of America.

INSTRUCTIONS — WARRANTY REGISTRATION CARD

1. Mail the completed WARRANTY REGISTRATION CARD to:

PEAVEY ELECTRONICS CORPORATION
P.O. BOX 2898
Meridian, MS 39302-2898

- a. Keep the PROOF OF PURCHASE. In the event warranty service is required during the warranty period, you will need this document. There will be no identification card issued by Peavey Electronics Corporation.
2. IMPORTANCE OF WARRANTY REGISTRATION CARDS AND NOTIFICATION OF CHANGES OF ADDRESSES:
 - a. Completion and mailing of WARRANTY REGISTRATION CARDS — Should notification become necessary for any condition that may require correction, the REGISTRATION CARD will help ensure that you are contacted and properly notified.
 - b. Notice of address changes — If you move from the address shown on the WARRANTY REGISTRATION CARD, you should notify Peavey of the change of address so as to facilitate your receipt of any bulletins or other forms of notification which may become necessary in connection with any condition that may require dissemination of information or correction.
3. You may contact Peavey directly by telephoning (601) 483-5365.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electric products, basic cautions should always be followed, including the following:

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be retained for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This product should not be used near water, i.e., a bathtub, sink, swimming pool, wet basement, etc.
6. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat such as a stove, radiator, or another heat producing amplifier.
8. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
9. Never break off the ground pin on the power supply cord. For more information on grounding, write for our free booklet "Shock Hazard and Grounding."
10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the plug and the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. If this product is to be mounted in an equipment rack, rear support should be provided.
13. Metal parts can be cleaned with a damp rag. The vinyl covering used on some units can be cleaned with a damp rag or an ammonia-based household cleaner if necessary. Disconnect unit from power supply before cleaning.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
15. This unit should be checked by a qualified service technician if:
 - a. The power supply cord or plug has been damaged.
 - b. Anything has fallen or been spilled into the unit.
 - c. The unit does not operate correctly.
 - d. The unit has been dropped or the enclosure damaged.
16. The user should not attempt to service this equipment. All service work should be done by a qualified service technician.
17. This product should be used only with a cart or stand that is recommended by Peavey Electronics.
18. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures.

Duration Per Day In Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss.

Ear plugs or protectors in the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

SAVE THESE INSTRUCTIONS!



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